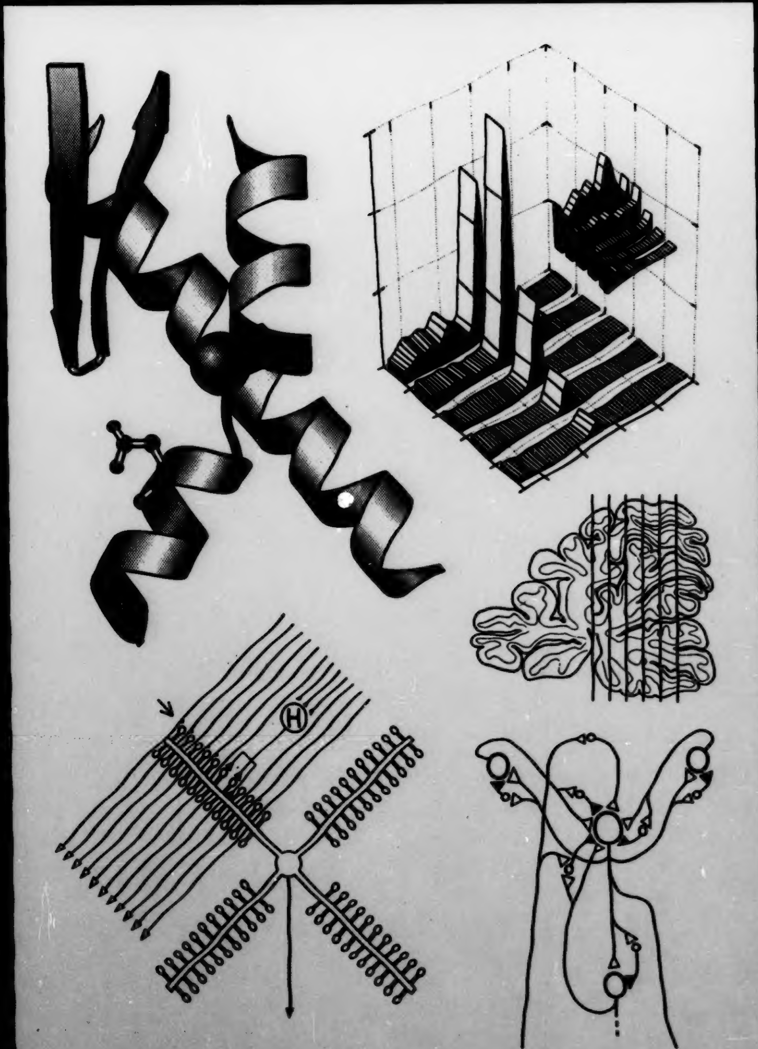
THE JOURNAL OF PHYSIOLOGY

1994
ANNUAL
INDEX



Volumes 459, 474 – 481

A publication of The Physiological Society

THE JOURNAL OF PHYSIOLOGY

Volumes 459, 474 – 481 January 1993, 1994

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Volume 459, covering the Proceedings of three Society Scientific Meetings held in 1992, was omitted from the previous index in error. This volume has been included in the 1994 index for completeness.

CAMBRIDGE
UNIVERSITY PRESS

Cover illustration composed from various *Journal of Physiology* covers published during 1994.

The Journal of Physiology

The Journal of Physiology (ISSN 0022 3751) is published semi-monthly for The Physiological Society by Cambridge University Press, The Edinburgh Building, Shaftesbury Road, Cambridge CB2 2RU, UK and 40 West 20th Street, New York, NY 10011-4211, USA.

Eight volumes (482–489) of three issues will be published in 1995 at regular intervals, along with five issues of *Proceedings* published in January, February, June, September and November and an additional index volume in March. Each issue is bound in laminated soft covers. The 1995 annual subscription price (which includes postage, but excludes VAT) is £898·00 net (US $1698·00 in the USA, Canada and Mexico). Copies of the journal for subscribers in the USA, Canada and Mexico are sent by air to New York. Individual issues may be purchased at £32·00 (US $58·00 in the USA, Canada and Mexico), plus postage. Orders, which must be accompanied by payment, may be placed with a bookseller or directly with the publisher. POSTMASTER: send address changes in USA, Canada and Mexico to *The Journal of Physiology*, Cambridge University Press, 110 Midland Avenue, Port Chester, New York, NY 10573-9864. Second class postage paid at New York, NY, and at additional mailing offices. EU subscribers (outside the UK) who are not registered for VAT should add VAT at their country's rate. VAT registered subscribers should provide their VAT registration number. Japanese prices for institutions (including ASP delivery) are available from Kinokuniya Company Ltd, PO Box 55, Chitose, Tokyo 156, Japan.

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Published by the Press Syndicate of the University of Cambridge
The Pitt Building, Trumpington Street, Cambridge CB2 1RP, UK
40 West 20th Street, New York, NY 10011-4211, USA
10 Stamford Road, Oakleigh, Melbourne 3166, Australia

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JPHY INDEX 1–189 (1995)
ISSN 0022 3751

Typeset by The Physiological Society
Printed in Great Britain by the University Press, Cambridge

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- Oxalate-induced electroneutral cell swelling in isolated perfused rabbit proximal tubules **459**, 368*P*, 1993
- The osmotic volumes of human red cells are linearly regulated by the outside pH **459**, 385*P*, 1993
- Altered myotube glutamine uptake associated with cell volume changes induced by aniso-osmotic exposure **477.P**, 63*P*, 1994
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- Taurine efflux and cell volume regulation in slices of rat cerebral cortex following chronic (7 day) hypernatraemia **479.P**, 57*P*, 1994

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- AMPA receptors contribute towards the fast, acute nociceptive response to formalin in the rat **477.P**, 48*P*, 1994
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- Acetylcholine release from neurites of rat basal forebrain neurones: detection using nicotinic ACh receptor-rich patches **480.P**, 24*P*, 1994
- Maintained morphology of rat magnocellular cholinergic basal forebrain neurones in culture **480.P**, 33*P*, 1994
- Development of the central nervous control of movement in man **480.P**, 141*P*, 1994

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- The development of central pattern generation and its descending control in the embryonic chick spinal cord **480.P**, 140*P*, 1994

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- Biophysical and pharmacological characteristics of Ca^{2+} channel currents in rat cerebellar granule neurones are dependent on internal solution **459**, 244*P*, 1993
- Internal Mg/nucleotide levels alter Ca^{2+} channel current characteristics and responses to (–)-baclofen in cultured rat cerebellar granule neurones **459**, 402*P*, 1993
- The importance of hand use to discharge of interpositus neurones of the monkey **480**, 171, 1994
- Sustained oscillations in [Ca^{2+}]$_i$ mediated by glutamate receptors in rat cerebellar granule neurones grown in primary culture **481.P**, 40*P*, 1994

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- Reduction of motor cortex excitability by transcranial magnetic stimulation over the human cerebellum **459**, 149*P*, 1993
- Projection of jaw-elevator muscle spindle afferents to the cerebellum and brainstem in anaesthetized rats **459**, 216*P*, 1993
- Impaired learning of visuo-motor tracking skills in human cerebellar dysfunction **459**, 498*P*, 1993
- Topographical organization of the cerebellar cortical projection to nucleus interpositus anterior in the cat **474**, 245, 1994
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- Non-uniform conduction time in the olivocerebellar pathway in the anaesthetized cat **476.P**, 26*P*, 1994
- Cerebellar lesion effects on prism adaptation in a Macaque monkey **476.P**, 27*P*, 1994
- Changes in excitability in spino-olivocerebellar paths to the c$_1$ zone of the cat cerebellum during rest and locomotion **476.P**, 35*P*, 1994
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- Topography of saccadic eye movements evoked by microstimulation in rabbit cerebellar vermis **480**, 147, 1994
- The importance of hand use to discharge of interpositus neurones of the monkey **480**, 171, 1994
- Dependence of EPSC size and duration on amount of glutamate released and on receptor desensitization at synapses to Purkinje cells in rat cerebellar slices **480.P**, 26*P*, 1994

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Facilitation of forebrain-induced cardiovascular effects by stimulation of the posterior cerebellar vermis in the anaesthetized rabbit **481**.P, 6*P*, 1994

Effects of early cerebellar lesions on the classically conditioned bradycardia exhibited by adult rabbits **481**.P, 9*P*, 1994

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Effect of *N*-monomethyl-L-arginine on cerebral blood flow during eucapnia, hypercapnia and hypoxia in the anaesthetized rat **476**.P, 78*P*, 1994

Human middle cerebral artery blood flow velocity studied during quiet breathing, reflex hypercapnic breathing and volitionally copied eucapnic breathing **480**.P, 55*P*, 1994

Influence of sympathetic activation on the spontaneous fluctuations of microvascular cerebral blood flow, in the rabbit **480**.P, 136*P*, 1994

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Is the inhibition of voluntary contraction evoked by transcranial magnetic stimulation in man occurring at the level of the cerebral cortex? **459**, 150*P*, 1993

Nitric oxide synthesis is necessary for long-term potentiation in isolated slices of the rat cerebral cortex **459**, 476*P*, 1993

Facilitatory effect of docosahexaenoic acid on *N*-methyl-D-aspartate response in pyramidal neurones of rat cerebral cortex **475**, 83, 1994

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Variable restriction of albumin diffusion across inflamed cerebral microvessels of the anaesthetized rat **475**, 147, 1994

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Comparison of γ-aminobutyric acid (GABA) transport at the blood–brain and blood–cerebrospinal fluid (CSF) barriers using the anaesthetized rat *in situ* brain perfusion and the isolated perfused sheep choroid plexus **475**.P, 72*P*, 1994

Developmental changes in the transport kinetics of acidic amino acids at the blood–cerebrospinal fluid barrier in the rat **479**.P, 102*P*, 1994

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Tetraethylammonium block of a calcium-activated potassium channel cloned from *Drosophila* and expressed in *Xenopus* oocytes **459**, 233*P*, 1993

Block of voltage-dependent Ca^{2+} channels by an alkylammonium ion derivative in isolated myocytes from rat basilar artery **459**, 341*P*, 1993

Ba^{2+} blockade of maxi K^{+} channels on human vas deferens epithelial cells *in vitro* **459**, 423*P*, 1993

Morantel may bind to more than one site within nicotinic-acetylcholine channels from *Ascaris suum* **459**, 489*P*, 1993

The effect of calcium channel blockade on the autoregulation of perfusion through the cortex and papilla of the kidney of the anaesthetized rat **459**, 494*P*, 1993

Block by amiloride and its derivatives of mechano-electrical transduction in outer hair cells of mouse cochlear cultures **474**, 75, 1994

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Multiple light-induced conductances in invertebrate phototransduction **480**.P, 96*P*, 1994

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Channel gating

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Cation-dependent gating of the hyperpolarization-activated cation current in the rabbit sino-atrial node cells **477**, 423, 1994

Dopamine directly gates an ion channel in snail neurones **477**.P, 92*P*, 1994

Channel inactivation

Inactivation of voltage-dependent Ca^{2+} channels over a wide voltage range in smooth muscle cells isolated from guinea-pig detrusor **459**, 260*P*, 1993

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The intramembrane charge movement in normally polarized isolated skeletal muscle fibre of the frog shows a double exponential delay **459**, 393*P*, 1993

Charge conservation in intact frog skeletal muscle fibres in gluconate-containing solutions **474**, 161, 1994

Evidence for the non-existence of a negative phase in the hump charge movement component (I_γ) in *Rana temporaria* **474**, 275, 1994

Origin of delayed outward ionic current in charge movement traces from frog skeletal muscle **479**, 109, 1994

Oxygen deprivation inhibits a K^{+} channel independently of cytosolic factors in rat central neurons **481**, 15, 1994

Kinetic separation of charge movement components in intact frog skeletal muscle **481**, 357, 1994

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The effect of elevated metabolic rate by Interleukin-1β upon the ventilatory response to hypoxia in unanaesthetized kittens **475**.P, 116*P*, 1994

The effects of changing urinary composition on 'silent' afferents in the rat bladder **476**.P, 50*P*, 1994

The ventilatory response to respiratory phase time-locked pulses of inhaled carbon dioxide studied in awake man at rest **476**.P, 81*P*, 1994

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Excitation of the arterial chemoreceptors of the anaesthetized cat by potassium and noradrenaline in euoxia **480**.P, 53*P*, 1994

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Carotid sinus nerve section and the increase in plasma cortisol during acute hypoxia in fetal sheep **477**, 75, 1994

Effect of carotid denervation on plasma vasopressin levels during acute hypoxia in the late-gestation sheep fetus **477**, 81, 1994

Acute ventilatory responses to hypoxia during voluntary and electrically induced leg exercise in man **477**, 161, 1994

Increased hypoxic ventilatory sensitivity during exercise in man: are neural afferents necessary? **477**, 169, 1994

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The influence of learning (imprinting) on the visual responsiveness of neurones of the intermediate and medial part of the hyperstriatum ventrale (IMHV) of freely moving chicks **459**, 161*P*, 1993

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- Learning-related changes in neuronal responsiveness in a memory system of the chick brain **475.P**, 35*P*, 1994
- Haemodynamic changes in stage 34 chick embryos after treatment with all-trans retinoic acid **479.P**, 23*P*, 1994

Chloride

- Effect of external chloride concentration on hyperpolarization-activated inward current, I_f, in rabbit isolated sinoatrial node cells **459**, 85*P*, 1993
- The role of chloride ions in histamine secretion from rat mast cells **459**, 184*P*, 1993
- Cl^- dependence of isoprenaline-induced acidification in quiescent isolated rat ventricular cardiomyocytes **459**, 223*P*, 1993
- Aluminium deposition in liver following aluminium citrate or chloride administration in conscious rats **459**, 374*P*, 1993
- The chloride binding osmoregulatory ligand of ox isolated corneal stroma **459**, 387*P*, 1993
- Outwardly rectifying chloride current in rabbit osteoclasts is activated by hyposmotic stimulation **475**, 377, 1994
- Determinants of $[Cl]_i$ in isolated rat arterial smooth muscle in deoxycorticosterone acetate (DOCA)-salt hypertension **475.P**, 44*P*, 1994
- Relaxation of isolated rat vascular smooth muscle following inhibition of anion exchange **475.P**, 51*P*, 1994
- Cell swelling activates a chloride current in guinea-pig ventricular myocytes **475.P**, 83*P*, 1994
- Chloride binding in human and bovine corneal stromas **475.P**, 91*P*, 1994
- Anion-dependent protein kinase activity in human nasal respiratory epithelium *in vitro* **479.P**, 56*P*, 1994
- GTP-utilizing, anion-sensitive protein kinase activity in human respiratory epithelium *in vitro* **480.P**, 64*P*, 1994

Chloride channel

- G protein regulation of a large conductance anion channel in alveolar type II epithelial cells freshly isolated from fetal guinea-pig **459**, 37*P*, 1993
- Serotonin activates Cl^- channels in the apical membrane of epithelial cells in isolated rat choroid plexus **459**, 38*P*, 1993
- Effects of chloride channel blockers on T_{84} and MDCK epithelial monolayers **459**, 168*P*, 1993
- Modulation of Cl^- and L-type Ca^{2+} channels by GTPγS and photoreleased cAMP in isolated guinea-pig cardiac ventricular myocytes **459**, 225*P*, 1993
- Calcium and cyclic AMP-activated currents in human vas deferens epithelial cells *in vitro* **459**, 422*P*, 1993
- Inhibition of volume-regulatory amino acid transport by Cl^- channel blockers in a human epithelial cell line **475.P**, 95*P*, 1994
- Multiplicity of Cl^- channel conductance states in bovine lens fibre cells **475.P**, 107*P*, 1994
- Volume-activated chloride currents in isolated, non-pigmented ciliary epithelial cells of the bovine eye **475.P**, 108*P*, 1994
- Plasma membrane action of oestrogen and anti-oestrogens revealed by their regulation of a large conductance chloride channel in fibroblasts **477.P**, 83*P*, 1994
- Chloride currents of single mitochondria-rich cells of toad skin epithelium **478**, 7, 1994
- A unique amino acid of the *Drosophila* GABA receptor with influence on drug sensitivity by two mechanisms **479**, 65, 1994
- Chloride channels in excised, inside-out membrane patches from human platelets **481.P**, 36*P*, 1994

Chloride conductance

- Regulation of chloride conductances of human placental brush-border membrane vesicles by arachidonic acid **459**, 172*P*, 1993
- Ionomycin-activated chloride conductances in isolated rat pancreatic duct cells **459**, 239*P*, 1993
- Cl^- conductance in isolated rat parotid acinar cells is triggered by cytosolic free calcium **459**, 349*P*, 1993
- Characterization of the whole-cell chloride conductance in conditionally immortalized renal glomerular mesangial cells from the H-$2K^b$-tsA58 transgenic mouse **477.P**, 82*P*, 1994
- The chloride conductance of rat proximal tubule brush-border membrane vesicles (BBMV) does not show multi-ion pore behaviour **479.P**, 63*P*, 1994
- Role of cell volume and protein kinase C in regulation of a Cl^- conductance in single proximal tubule cells of *Rana temporaria* **480**, 1, 1994
- The pinacidil derivative P1075 inhibits whole-cell chloride conductance in conditionally immortalized renal glomerular mesangial cells from the H-$2K^b$-tsA58 transgenic mouse **480.P**, 83*P*, 1994
- Contribution of chloride conductance increase to slow EPSC and tachykinin current in guinea-pig myenteric neurones **481**, 47, 1994

Chloride current

- Sodium and chloride currents in single mitochondria-rich cells of amphibian skin **459**, 241*P*, 1993
- Volume-sensitive chloride currents in a rat dorsal root ganglion (DRG) cell line (F-11) **459**, 243*P*, 1993
- Volume-activated chloride currents in human vas deferens epithelial cells *in vitro* **459**, 424*P*, 1993
- Calcium-dependent chloride current induced by axotomy in rat sympathetic neurons **475**, 391, 1994
- Volume-sensitive chloride currents in isolated rat pancreatic duct cells **475.P**, 94*P*, 1994
- Chloride manipulation reduces stretch-induced ventricular ectopics in isolated guinea-pig hearts **476.P**, 55*P*, 1994
- Vasoactive intestinal peptide activates a cAMP-activated Cl^- current in avian salt gland cells **477.P**, 82*P*, 1994
- Modulation of CFTR Cl^- currents in isolated rat pancreatic duct cells by protein kinase C **480.P**, 61*P*, 1994
- Regulation of volume-sensitive Cl^- currents in isolated rat pancreatic duct cells by Ca^{2+} and protein kinase C **480.P**, 61*P*, 1994
- Augmentation of Cl^- and L-type Ca^{2+} currents by isoprenaline in guinea-pig ventricular myocytes from normal and hypertrophied hearts **481.P**, 63*P*, 1994

Chloride permeability

- Ionomycin increases chloride ($^{125}I^-$) permeability in a permanent cell line (NCL-SG3) derived from the human sweat gland epithelium **459**, 33*P*, 1993
- External ATP can evoke increased chloride ($^{125}I^-$) permeability in cultured equine sweat gland epithelial cells **459**, 425*P*, 1993

Chloride secretion

- Effects of adrenergic agonists on transepithelial chloride secretion and $[Ca^{2+}]_i$ in cultured cauda epididymal cells of rats **459**, 176*P*, 1993
- Intracellular cAMP and Ca^{2+} regulate basolateral K^+ channels in isolated rat duodenal crypts **459**, 290*P*, 1993
- Co-ordinated activation by secretory agonists of both Cl^- and K^+ currents in human secretory epithelial cells **477.P**, 97*P*, 1994
- Segmental differences in the effects of guanylin and *Escherichia coli* heat-stable enterotoxin on Cl^- secretion in human gut **479**, 433, 1994
- Different mechanisms involved in chloride secretion induced by phorbol dibutyrate (PDB) and forskolin in the human colon carcinoma cell line HT-29cl.19A **479.P**, 58*P*, 1994

Chloride transport

- Measurement of Band 3 inhibition by a simple pH method **459**, 115*P*, 1993
- Adrenaline stimulated Cl^- uptake and efflux in cultured rat epididymal cells **459**, 389*P*, 1993
- Endogenous Na^+–K^+ (or NH^{4+})–2Cl^- cotransport in *Rana* oocytes; anomalous effect of external NH^{4+} on pH_i **475**, 45, 1994
- Chloride and bicarbonate transport in chick embryonic red blood cells **477**, 393, 1994

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- The peripheral-type cholecystokinin receptor antagonist, MK-329, blocks induction of Fos-like immunoreactivity in the rat brain following systemic administration of cholecystokinin **459**, 483*P*, 1993
- Mesenteric afferent responses to 5-hydroxytryptamine (5-HT) and cholecystokinin (CCK) in the anaesthetized rat **477.P**, 71*P*, 1994
- Relative contribution of truncal vagotomy and pyloroplasty to raised postoperative CCK levels in man **477.P**, 74*P*, 1994
- Opposite effects mediated by CCK_A and CCK_B receptors upon the regulation of behaviour and hormonal secretion in rodents **479.P**, 110*P*, 1994
- Effect of abdominal vagotomy on mesenteric afferent responses to 5-HT and CCK in the anaesthetized rat **481.P**, 12*P*, 1994

Cholesterol

- Effect of dietary cholesterol on the uptake of albumin by rabbit aortic wall *in vivo* **479.P**, 77*P*, 1994

Cholinergic agonist

- Differences in M- and N-cholinergic agonist action on fine afferents uncover code of nociceptive message **480.P**, 34*P*, 1994

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GTP-γ-S activates Cl$^-$ channels in epithelial cells of choroid plexus isolated from the rat **475.P**, 109*P*, 1994
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Ciliary epithelium
Carbachol causes transient activation of K$^+$ channels in isolated bovine pigmented ciliary epithelial cells **459**, 180*P*, 1993

Circadian rhythm
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Non-uniform conduction time in the olivocerebellar pathway in the anaesthetized cat **476.P**, 26*P*, 1994

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Contrasting actions of cocaine, local anaesthetic and tetrodotoxin on discharge properties of rat aortic baroreceptors **477**, 309, 1994

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Ionic currents in bushy-like cells of the mouse anteroventral cochlear nucleus *in vitro* **459**, 159*P*, 1993
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Bursting or cartwheel-like cells of the mouse dorsal cochlear nucleus *in vitro* **459**, 434*P*, 1993
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Voltage-gated potassium currents in cochlear hair cells of the embryonic chick **480.P**, 34*P*, 1994
Evidence for release of an excitatory amino acid from inner hair cells isolated from the guinea-pig cochlea **480.P**, 105*P*, 1994

Cold
The effect of cold acclimation on muscle capillary supply in the Syrian hamster (*Mesocricetus auratus*) **475.P**, 61*P*, 1994
The effect of rapid local cooling on human finger nailfold capillary blood pressure and blood cell velocity **478**, 109, 1994
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The effects of skin cooling on the cutaneomuscular reflexes in tibialis anterior in man **481.P**, 50*P*, 1994

Collateral innervation
Comparison of GAP-43 mRNA in axotomized and collaterally sprouting motoneurons of the mouse **459**, 294*P*, 1993
Nerve growth factor depletion reduces collateral sprouting of cutaneous mechanoreceptive and tooth-pulp axons in ferrets **481**, 709, 1994

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Vasopressin and Ca^{2+} regulate the ATP-sensitive K$^+$ channel of isolated cortical collecting duct of rat kidney (CCD) **459**, 234*P*, 1993

Colon
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Effects on fluid and Na$^+$ flux of varying luminal hydraulic resistance in rat colon *in vivo* **477**, 539, 1994
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Effect of phosphodiesterase V$_A$ inhibitors on canine ileal and colonic motility and oesophageal pH *in vivo* **477.P**, 73*P*, 1994
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Physiologist-friendly software to display ratiometric Ca^{2+} image data as pseudocolour or 3-dimensional images **477.P**, 2*P*, 1994
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Effects of low temperature on calculated intracellular oxygen tensions in fish skeletal muscle **479.P**, 6*P*, 1994

Conditioning

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Conductance

Gating and conductance properties of a human delayed rectifier K$^+$ channel expressed in frog oocytes **477**, 1, 1994

Conduction block

Intracellular ATP prevents conductance increase elicited by hypoxia in rat CA1 hippocampal neurones in slices **459**, 55*P*, 1993

Dynamics of circus movement re-entry across canine Purkinje fibre–muscle junctions **476**, 473, 1994

Conduction velocity

The types of afferent fibre with slow conduction velocity innervating the skin of the anaesthetized pig **459**, 220*P*, 1993

Apparatus for real time measurement of conduction velocity and direction of activation of the myocardium using monophasic action potentials **475.P**, 8*P*, 1994

Connectivity

Variant synaptic connections of an identified peptidergic neurone of *Lymnaea stagnalis* **475.P**, 150*P*, 1994

ω-Conotoxin

ω-Conotoxin-sensitive and -resistant transmitter release from the chick ciliary presynaptic terminal **477**, 437, 1994

Contractility

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Contractile properties of isolated skinned skeletal muscle fibres from normal and dystrophic (*mdx*) mice **459**, 16*P*, 1993

Na–K pump stimulation elicits recovery of contractility in rat soleus muscle paralysed by high extracellular K$^+$ **459**, 47*P*, 1993

The contractile properties of aneurally regenerated rat soleus muscle recorded *in vitro* **459**, 125*P*, 1993

Inhibition of spontaneous contractility of sheep lymphatics by serotonin **459**, 262*P*, 1993

Alterations in contractility and intracellular Ca^{2+} transients in isolated bundles of skeletal muscle fibres from rats with chronic heart failure **459**, 406*P*, 1993

Contractility, a^i_{Na} and membrane current during changes in stimulation frequency in isolated guinea-pig ventricular myocytes **459**, 409*P*, 1993

The effects of cyanide on agonist-induced contractile activity in isolated rat uterus **459**, 490*P*, 1993

In vitro sensitivity of the myometrium (MYO) and mesometrium (MESO) of the pregnant sheep (80–147 days gestation) **459**, 496*P*, 1993

Gastrin-releasing peptide stimulated gallbladder contractility is antagonized by [D-phe 6, des-met 14]-bombesin 6–14 ethylamide, *in vitro* **477.P**, 40*P*, 1994

Effects of angiotensin II on intracellular Ca^{2+} and pH in isolated beating rabbit hearts and myocytes loaded with the indicator indo-1 **480**, 203, 1994

Aminophylline enhances resting Ca^{2+} concentrations and twitch tension by adenosine receptor blockade in *Rana pipiens* **481**, 129, 1994

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The role of the T-tubules in Ca^{2+} signalling and excitation–contraction coupling in guinea-pig cardiac myocytes **477.P**, 18*P*, 1994

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- Evidence for quantal transmission at excitatory synapses on to rat trigeminal motoneurones *in vitro* **479.P**, 43*P*, 1994
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Endothelin regulates uptake and intercellular distribution of glucose in cultured rat astrocytes **480.P**, 20*P*, 1994

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Gastrin-releasing peptide stimulated gallbladder contractility is antagonized by [D-phe 6, des-met 14]-bombesin 6–14 ethylamide, *in vitro* **477.P**, 40*P*, 1994

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The effect of glibenclamide on frog skeletal muscle: evidence for K^+_{ATP} channel activation during fatigue **475**, 495, 1994

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Effects of glucagon on glucose-induced $[Ca^{2+}]_i$ oscillations in single isolated mouse pancreatic islets of Langerhans **477.P**, 79*P*, 1994

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Passive facilitated glucose transport across bovine retinal pigment epithelium **475.P**, 98*P*, 1994

Hyperglycaemia of 2 h duration increases glucose transport across isolated brush-border but not basolateral membrane of rat jejunal enterocytes **477.P**, 78*P*, 1994

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GLUT1 mRNA in brain regions of lean and obese Zucker (*fa*/*fa*) rats acutely exposed to cold **481.P**, 28*P*, 1994

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Kinetic characteristics of the acidic amino acid carrier system at the blood–brain barrier in anaesthetized rats: a developmental study **475.P**, 73*P*, 1994

Effects of adenosine and a glutamate uptake blocker on excitatory synaptic currents at two synapses in isolated rat cerebellar slices **475.P**, 153*P*, 1994

Single channel properties of cloned NMDA receptors in a human cell line: comparison with results from *Xenopus* oocytes **476**, 391, 1994

Effects of presynaptic metabotropic glutamate receptor agonists on whole-cell currents of rat spinal ventral horn neurones *in vitro* **476.P**, 41*P*, 1994

L-AP3 potently blocks the driving of cells in the gracile nucleus by dorsal column stimulation in the urethane-anaesthetized rat **476.P**, 41*P*, 1994

Effects of external pH changes on the glutamate uptake current in glial cells isolated from the tiger salamander retina **476.P**, 67*P*, 1994

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Developmental changes in the transport kinetics of acidic amino acids at the blood–cerebrospinal fluid barrier in the rat **479.P**, 102*P*, 1994

Voltage clamp analysis of excitatory synaptic transmission in the avian nucleus magnocellularis **480**, 123, 1994

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Presynaptic metabotropic glutamate receptors modulate synaptic transmission at the calyx of Held **480.P**, 27*P*, 1994

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Glutamate-induced membrane potential oscillations in sympathetic preganglionic neurones from rat spinal cord *in vitro* **481.P**, 8*P*, 1994

Sustained oscillations in $[Ca^{2+}]_i$ mediated by glutamate receptors in rat cerebellar granule neurones grown in primary culture **481.P**, 40*P*, 1994

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(January 1993, January – December 1994)

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0022-3751(1994)481*;1-A